

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 515495

API: 47 - 049 - 02451

Submission:  Initial  Amended

Notes:

*Appears to be  
final WR-35*

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WV Department of  
Environmental Protection

*SJW*

Reviewed

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-049-02451 County Marion District Mannington  
Quad Glover Gap Pad Name GLO76 Field/Pool Name N/A  
Farm name Tonkery, Robert E. & Maxine P. Well Number 515495  
Operator (as registered with the OOG) EQT Production Company  
Address 115 Professional Place, PO Box 280 City Bridgeport State WV Zip 26330

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,379,500.59 Easting 543,852.45  
Landing Point of Curve Northing 4,379,612.81 Easting 543,885.86  
Bottom Hole Northing 4,380,669.01 Easting 543,412.86

Elevation (ft) 1424 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other  
Drilled with  Cable  Rotary

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Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s) Water Base Mud 13.9 ppg, aliphatic based non-aqueous drilling fluid, barium sulfate, calcium chloride, organophytic clay, quaternary ammonium clay, gilsonite, blended emulsifier, wetting agent, blended graphite, hydrated lime, calcium carbonate, ground walnut shells, fibrous cellulose.

Date permit issued 05/17/2017 Date drilling commenced 05/18/2017 Date drilling ceased 08/14/2017  
Date completion activities began 8/26/2017 Date completion activities ceased 9/16/2017  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 263' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1883', 2123', 2438' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 652', 808', 1067', 1166' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:

03/02/2018

API 47-049 - 02451 Farm name Tonkery, Robert E. & Maxine P. Well number 515495

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	413'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3049'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5 1/2"	12020'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has calculated TOC of 6432' MD, which is greater than 500' TVD above the producing formation. No issues during cement job

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	49	15.6	1.18	57.82	0	8
Surface	CLASS A	515	15.6	1.20	618	0	8
Coal							
Intermediate 1	Class A	135 / 1030	15.6 / 15.6	1.18 / 1.20	1401.3	0	8
Intermediate 2							
Intermediate 3							
Production	Class H / Class H	195 / 500	15.2 / 15.6	1.16 / 2.10	1282	6432'	8
Tubing							

Drillers TD (ft) 12027 Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

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Kick off depth (ft) 6200' MD

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING CONDUCTOR: NONE

SURFACE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE

INTERMEDIATE 1 : ON SHOE TRACK AND EVERY 500' FEET TO SURFACE

PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO 6104'

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_





API 47- 049 - 02451 Farm name Tonkery, Robert E. & Maxine P. Well number 515495

Drilling Contractor Decker Drilling  
Address 11565 State Route 676 City Vincent State OH Zip 45784

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company Scientific Drilling International, Inc.  
Address 124 Vista Drive City Charleroi State PA Zip 15022

Cementing Company BJ Services, LLC  
Address 4000 Town Center Blvd, Suite 210 City Cannonsburg State PA Zip 15317

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## Well# 515495 Final Formations API# 47-049-02451-00-00

Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
SAND/SHALE	1	1	652	652
WASHINGTON COAL	652	652	654	654
SAND/SHALE	654	654	808	808
WAYNESBURG COAL	808	808	810	810
SAND/SHALE	810	810	1067	1067
SEWICKLEY COAL	1067	1067	1070	1070
SAND/SHALE	1070	1070	1166	1166
PITTSBURGH COAL	1166	1166	1173	1173
SAND/SHALE	1173	1173	2136	2134
MAXTON	2136	2134	2173	2171
SAND/SHALE	2173	2171	2283	2280
BIG LIME	2283	2280	2352	2348
SAND/SHALE	2352	2348	2447	2442
BIG INJUN	2447	2442	2602	2595
SAND/SHALE	2602	2595	2720	2712
WEIR	2720	2712	2740	2732
SAND/SHALE	2740	2732	2928	2920
GANTZ	2928	2920	2981	2973
SAND/SHALE	2981	2973	3088	3080
50F	3088	3080	3101	3093
SAND/SHALE	3101	3093	3178	3170
THIRTY FOOT	3178	3170	3211	3203
SAND/SHALE	3211	3203	3242	3234
GORDON	3242	3234	3291	3283
SAND/SHALE	3291	3283	3311	3303
FOURTH SAND	3311	3303	3343	3335
SAND/SHALE	3343	3335	3372	3364
BAYARD	3372	3364	3389	3381
SAND/SHALE	3389	3381	3854	3846
WARREN	3854	3846	3892	3884
SAND/SHALE	3892	3884	4075	4067
SPEECHLEY	4075	4067	4112	4104
SAND/SHALE	4112	4104	4436	4428
BALLTOWN A	4436	4428	4834	4826
SAND/SHALE	4834	4826	4959	4951
RILEY	4959	4951	5060	5052
SAND/SHALE	5060	5052	5518	5510
BENSON	5518	5510	5542	5534
SAND/SHALE	5542	5534	5904	5896
ALEXANDER	5904	5896	6000	5992
ELKS	6000	5992	7358	7255
SONYEA	7358	7255	7524	7402
MIDDLESEX	7524	7402	7576	7446
GENESSEE	7576	7446	7697	7538
GENESE0	7697	7538	7745	7569
TULLY	7745	7569	7790	7595
HAMILTON	7790	7595	8021	7691
MARCELLUS	8021	7691	12027	7835

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**515495 47-049-02451-0000 - Perforations**

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	8/20/2017	11,994	11,996	10	MARCELLUS
1	8/27/2017	11,833	11,955	32	MARCELLUS
2	8/27/2017	11,633	11,795	40	MARCELLUS
3	8/28/2017	11,433	11,595	40	MARCELLUS
4	8/29/2017	11,233	11,395	40	MARCELLUS
5	8/29/2017	11,033	11,195	40	MARCELLUS
6	8/30/2017	10,833	10,995	40	MARCELLUS
7	8/31/2017	10,633	10,795	40	MARCELLUS
8	9/4/2017	10,433	10,595	40	MARCELLUS
8	9/5/2017	10,338	10,420	24	MARCELLUS
9	9/4/2017	10,137	10,299	40	MARCELLUS
10	9/4/2017	9,744	9,906	40	MARCELLUS
11	9/6/2017	9,544	9,706	40	MARCELLUS
12	9/7/2017	9,344	9,386	40	MARCELLUS
13	9/8/2017	9,144	9,306	40	MARCELLUS
14	9/9/2017	8,944	9,106	40	MARCELLUS
15	9/11/2017	8,744	8,906	40	MARCELLUS
16	9/12/2017	8,544	8,706	40	MARCELLUS
17	9/14/2017	8,344	8,506	40	MARCELLUS
18	9/15/2017	8,144	8,306	40	MARCELLUS

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**515495 47-049-02451-0000 - Stimulated Stages**

<b>Stage Number</b>	<b>Stimulation Date</b>	<b>Ave Pump Rate (BPM)</b>	<b>Ave Treatment Pressure (PSI)</b>	<b>Max Breakdown Pressure (PSI)</b>	<b>ISIP (PSI)</b>	<b>Amount of Proppant (lbs)</b>	<b>Amount of Water (bbls)</b>	<b>Amount of Nitrogen/other (units)</b>
Initiation Sleeve	8/26/2017	13	5,603	7,066	4,861		929	0
1	8/27/2017	97	8,764	9,760	5,688	418340	8,233	0
2	8/28/2017	98	8,743	9,208	5,760	600942	12,243	0
3	8/28/2017	99	8,834	9,078	5,453	606122	11,282	0
4	8/29/2017	100	8,747	9,167	5,616	601656	11,405	0
5	8/30/2017	98	8,308	9,070	5,597	601008	11,896	0
6	8/31/2017	100	8,808	9,056	4,706	600737	10,166	0
7	9/3/2017	98	8,844	9,413	5,799	550240	11,294	0
8	9/3/2017	80	9,143	9,388	6,136	117138	5,805	0
8	9/4/2017	86	9,010	9,357	5,578	483342	12,205	0
9	9/4/2017	94	8,984	9,214	5,253	600116	10,892	0
10	9/6/2017	99	8,631	9,093	5,181	601194	9,804	0
11	9/6/2017	99	8,559	9,249	5,851	600187	10,939	0
12	9/8/2017	99	8,482	9,040	5,523	590510	9,738	0
13	9/9/2017	99	8,377	8,913	4,995	601475	9,400	0
14	9/10/2017	100	8,162	8,621	6,075	600743	9,961	0
15	9/12/2017	95	8,475	9,642	5,008	522054	8,715	0
16	9/13/2017	100	8,084	8,924	5,997	601720	9,781	0
17	9/15/2017	101	7,915	8,253	6,211	601400	9,788	0
18	9/16/2017	98	8,062	8,729	5,766	600470	9,752	0

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/26/2017
Job End Date:	9/16/2017
State:	West Virginia
County:	Marion
API Number:	47-049-02451-00-00
Operator Name:	EQT Production
Well Name and Number:	515495
Latitude:	39.56399600
Longitude:	-80.48968600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,691
Total Base Water Volume (gal):	8,157,576
Total Base Non Water Volume:	0

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## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	FTS International	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	86.33640	None
MC MX 5-3886	Multi-Chem Group	Specialty Brine					
				Listed Below			

Sand (Proppant)	FTS International	Proppant					
				Listed Below			
FRW-1450	FTS International	Friction Reducer					
				Listed Below			
CS-500-SI	FTS International	Scale inhibitor					
				Listed Below			
APB-1	FTS International	Gel Breaker					
				Listed Below			
MC MX 8-2544	Multi-Chem Group	Live Culture - Nitrate Reducing Bacteria					
				Listed Below			
Hydrochloric Acid (15%)	FTS International	Acidizing					
				Listed Below			
CI-150	FTS International	Acid corrosion inhibitor					
				Listed Below			
Other Chemical (s)	Listed Above	See Trade Name (s) List					
				Listed Below			
HVG-1	FTS International	Water Gelling Agent					

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				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Silica Substrate	14808-60-7	100.00000	13.31590	None
			Calcium Nitrate.4H2O	13477-34-4	100.00000	0.10580	None
			Calcium Nitrate.4H2O	13477-34-4	100.00000	0.10580	None
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.02332	None
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.02332	None
			Hydrochloric Acid	7647-01-0	15.00000	0.01953	None
			Sodium chloride	7647-14-5	100.00000	0.00940	None
			Sodium chloride	7647-14-5	100.00000	0.00940	None
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00389	None
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00389	None
			Ethylene glycol	107-21-1	10.00000	0.00239	None
			Sodium nitrate	7631-99-4	5.00000	0.00047	None
			Sodium nitrate	7631-99-4	5.00000	0.00047	None
			Petroleum Distillate	64742-47-8	55.00000	0.00024	None
			Petroleum Distillate	64742-47-8	55.00000	0.00024	None
			Guar gum	9000-30-0	50.00000	0.00022	None
			Guar gum	9000-30-0	50.00000	0.00022	None
			Organic amine resin salt	Proprietary	30.00000	0.00007	None
			Isopropanol	67-63-0	30.00000	0.00007	None
			Ethylene glycol	107-21-1	30.00000	0.00007	None
			Quaternary ammonium compound	Proprietary	10.00000	0.00002	None
			Aromatic aldehyde	Proprietary	10.00000	0.00002	None
			Dimethylformamide	68-12-2	10.00000	0.00002	None
			Ammonium Persulfate	7727-54-0	95.00000	0.00001	None
			Ammonium Persulfate	7727-54-0	95.00000	0.00001	None
			Clay	14808-60-7	2.00000	0.00001	None

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		Surfactant	68439-51-0	2.00000	0.00001	None
		Surfactant	68439-51-0	2.00000	0.00001	
		Clay	14808-60-7	2.00000	0.00001	

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

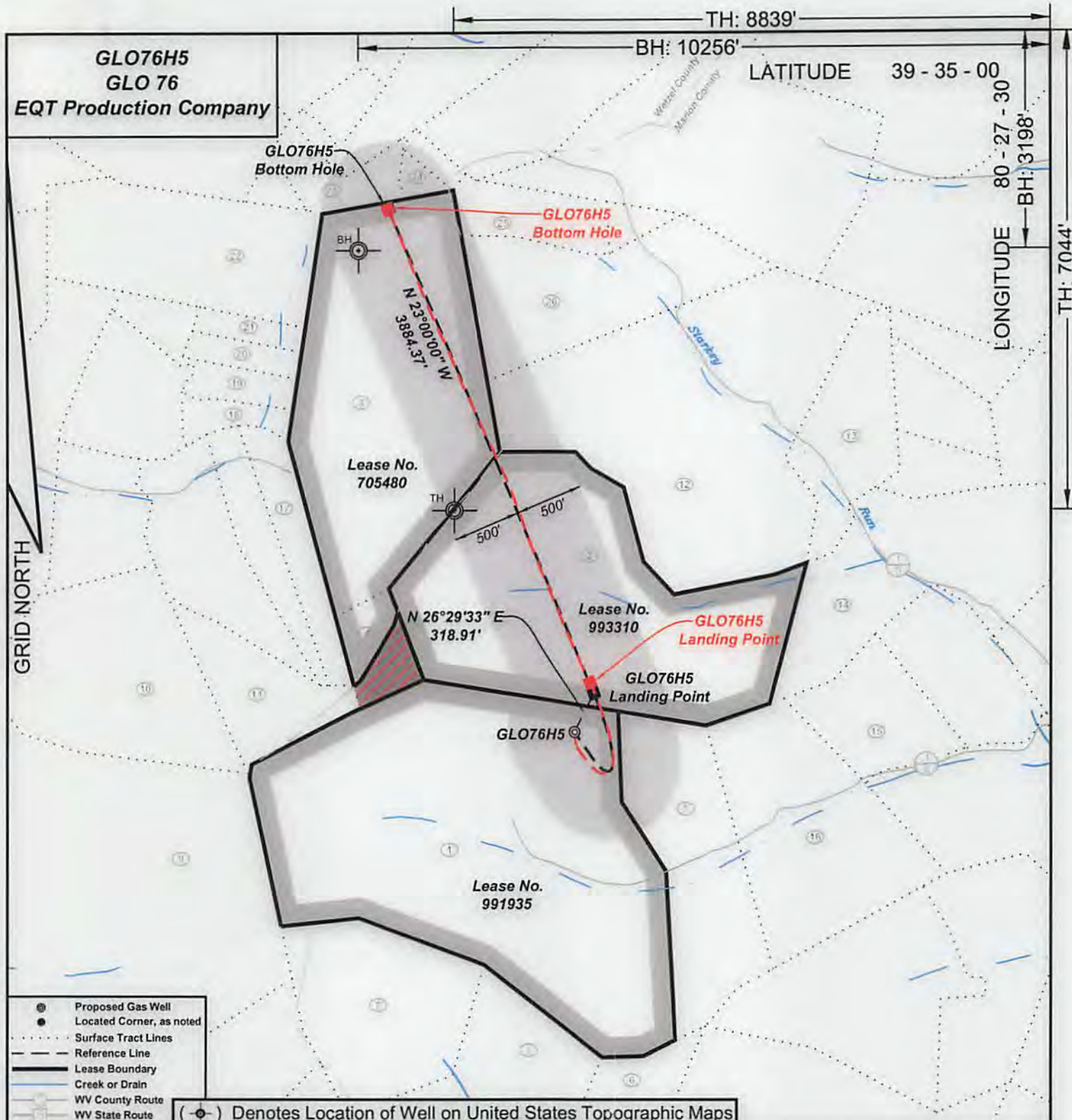
\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.  
 Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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- ⊙ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

(⊙) Denotes Location of Well on United States Topographic Maps



*I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.*

P.S. 2092



FILE NO: 341-14  
 DRAWING NO: 341-14 GLO 76 H5  
 SCALE: 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: September 7 20 17  
 OPERATOR'S WELL NO.: GLO76H5  
 API WELL NO  
 47 - 049 - 02451  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: 1424' (As-built) WATERSHED: Starkey Run and Wiley Fork QUADRANGLE: Glover Gap  
 DISTRICT: Mannington COUNTY: Marion

SURFACE OWNER: Robert E. & Maxine P. Tonkery ACREAGE: 111.0  
 ROYALTY OWNER: Lynn Ann Brower, et al. LEASE NO: 991935 ACREAGE: 111.0

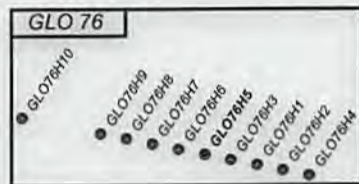
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,558'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray  
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280  
 Bridgeport, WV 26330 Bridgeport, WV 26330

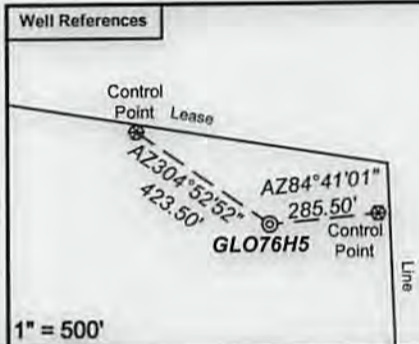
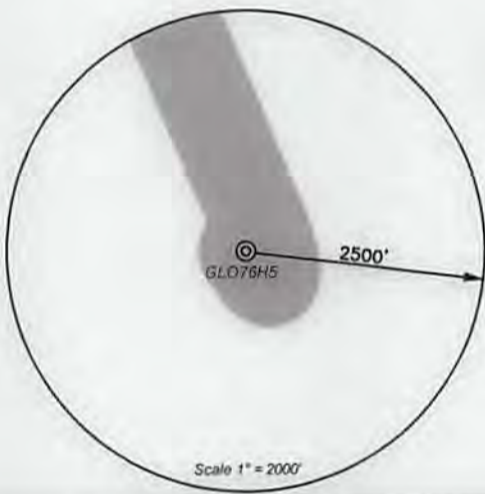
**GLO76H5**  
**GLO 76**  
**EQT Production Company**

As-Drilled Well Information:  
GLO76H5 coordinates are  
NAD 27 N: 389,066.62 E: 1,720,985.94  
NAD 83 UTM N: 4,379,500.59 E: 543,852.45  
GLO76H5 Landing Point coordinates are  
NAD 27 N: 389,433.00 E: 1,721,101.70  
NAD 83 UTM N: 4,379,612.81 E: 543,885.86  
GLO76H5 Bottom Hole coordinates are  
NAD 27 N: 392,924.70 E: 1,719,607.30  
NAD 83 UTM N: 4,380,669.01 E: 543,412.86  
West Virginia Coordinate system of 1927 (North Zone)  
based upon Differential GPS Measurements.  
Plat orientation, corner and well ties are based upon  
the grid north meridian.  
Well location references are based upon the grid north  
meridian.  
UTM coordinates are NAD83, Zone 17, Meters.

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	43	11	Marion	Mannington	Robert E. & Maxine P. Tonkery	111.00
2	43	22	Marion	Mannington	Paul Able Trustee, et al.	83.00
3	15	26	Wetzel	Grant	William Jack Barr, et al.	76.22
4	15	36	Wetzel	Grant	Barry L. Long	7.00
5	43	10	Marion	Mannington	Robert S. & Gloria L. Thorn	25.33
6	45	28	Marion	Mannington	Delbert C. Teagarden, Jr.	40.80
7	45	29	Marion	Mannington	Raymond C. Teagarden	61.02
8	43	11.1	Marion	Mannington	David A. & Diane E. Floyd	30.00
9	20	1	Wetzel	Grant	Alan D. & Diana L. Barr	13.00
10	15	34	Wetzel	Grant	Karen R. Dennison, et al.	111.40
11	15	35	Wetzel	Grant	Thomas E. Wyatt, et al.	174.68
12	43	21	Marion	Mannington	Raymond & Lois E. Joy	66.50
13	43	20	Marion	Mannington	Raymond & Lois E. Joy	23.50
14	43	15	Marion	Mannington	Thomas W. Neer	46.75
15	43	12	Marion	Mannington	Thomas A. & Betty L. Heldreth	16.75
16	43	9	Marion	Mannington	Robert S. & Gloria L. Thorn	46.79
17	15	33	Wetzel	Grant	William Jack Barr, et al.	10.75
18	15	25	Wetzel	Grant	William Jack Barr, et al.	4.20
19	15	24	Wetzel	Grant	William Jack Barr, et al.	4.75
20	15	23	Wetzel	Grant	William Jack Barr, et al.	3.88
21	15	22	Wetzel	Grant	Donald W. & Dianna White	3.63
22	15	13	Wetzel	Grant	Donald W. & Dianna White	40.00
23	15	7.1	Wetzel	Grant	Donald W. & Dianna White	7.80
24	15	37	Wetzel	Grant	Coastal Forest Resources Co.	1.45
25	43	28	Marion	Mannington	Ernest W. & Nancy A. Michael	15.38
26	43	25	Marion	Mannington	Ernest W. & Nancy A. Michael	40.14



Lease No.	Acres	Owner
993310	83	ET Blue Grass LLC, et al.
705480	83.22	Jeffrey Scott Cozart, et al.



- Proposed Gas Well
- Located Corner, as noted
- ..... Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
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*I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.*



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FILE NO: 341-14  
DRAWING NO: 341-14 GLO 76 H5  
SCALE: 1" = 1000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: September 7 20 17  
OPERATOR'S WELL NO.: GLO76H5  
API WELL NO  
47 - 049 - 02451  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1424' (As-built) WATERSHED Starkey Run and Wiley Fork QUADRANGLE: Glover Gap  
DISTRICT: Mannington COUNTY: Marion  
SURFACE OWNER: Robert E. & Maxine P. Tonkery ACREAGE: 111.00  
ROYALTY OWNER: Lynn Ann Brower, et al. LEASE NO: 991935 ACREAGE: 111.00  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,558'

03/02/2018

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray  
ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280  
Bridgeport, WV 26330 Bridgeport, WV 26330